Take Test: Remote Invocation

Test Information

Description	
Instructions	
Multiple Attempts	This test allows multiple attempts.
Force Completion	This test can be saved and resumed later, unless it is a timed test. Once you start a timed test, the timer contin

Question Completion Status:

Save All Answers Save and Submit

QUESTION 1

10 points Save Answer

In terms of call semantics, which of the following is true about "at-least-once"?

- a. It has duplication filtering.
- b. It retransmits the reply in case of failure, there is no re-execution.
- c. It doesn't support retransmit request.
- d. All of the above.
- e. None of the above.

QUESTION 2

10 points Save Answer

Which one of the following statements is most likely not true concerning Java RMI?

- a. Servants can be remotely created.
- b. A binder maintains a table containing mappings from textual names to object references.
- c. When both Java VMs are on the same host, a binder is not needed.
- d. Garbage collection requires keeping a count of all remote references as well as local ones.
- e. At-most-once semantics are guaranteed.

QUESTION 3

10 points Save Answer

A serializable class in Java:

- a. Ensures that the object can be transformed into a form that is suitable for storing on disk or transmitting in a message.
- b. Allows remote object references to be registered with the RMIregistry name server.
- c. Ensures that valid remote references can be created for that object.
- d. Guarantees that an object is accessed by only one thread at a time.
- e. Has the ability to communicate with remote objects using sockets.

QUESTION 4

10 points Save Answer

How are arguments passed in Java RMI?

- a. Serialized objects as copy, all others as reference.
- b. Call by copy only.
- c. Remote objects as reference, all other as copies.
- d. Call by reference only.
- e. Serialized objects as reference, all other as copy.

Question Completion Status:

QUESTION 5

10 points Save Answer

What is the purpose of the marshaling procedure?

- a. To compress data structures.
- b. To protect an application from unauthorized requests.
- c. To encode application layer structures in an external form.
- d. To ensure the integrity of the arguments passed during a remote method invocation.
- e. Consistency checking of data types.

QUESTION 6

10 points Save Answer

What level of transparency is provided by method invocation in Java RMI?

- a. Access transparency.
- b. Neither access nor location transparency.
- c. Location transparency.
- d. Both access and location transparency.

QUESTION 7

10 points Save Answer

QUESTION 7 10 points Save Answer

In the context of RMI, which of the following is required for the communication of a client with a remote object to take place?

- a. Stub.
- b. Skeleton.
- c. Message queue.
- d. All of the above.
- e. Both a) and b).

QUESTION 8

10 points Save Answer

Can we implement an RPC system with exactly-once semantics in an asynchronous system with non-failing nodes but unreliable networks?

- a. No, the unreliability of the network means only maybe semantics can be provided.
- b. No, we can only achie Question Completion Status:
- c. Yes, simply resend the request until an acknowledgment is received.
- d. No, since messages can be lost a reply is not guaranteed to reach the client.
- e. Yes, if the client keeps resending a uniquely tagged request until a reply is received and a server keeps track of all handled request in order not to duplicate a request.

QUESTION 9

10 points Save Answer

Which call semantic is provided by Java RMI?

- a. Exactly-once semantic.
- b. At-least-once semantic.
- c. At-most-once semantic .
- d. Both maybe and at-most-once semantics.
- e. Maybe semantic.

QUESTION 10

10 points Save Answer

Which of the following is not true regarding RMI?

- a. A client stub is responsible for forwarding method calls to the actual object on the server via the network.
- b. A client stub is responsible for unmarshaling the arguments of a remote method call into bytes.
- c. A client stub is responsible for marshaling the return value of a remote method call.
- d. None of the above.

e. Both b) and c) are not true.

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